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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/614,834	07/09/2003	Kazutoshi Yasunaga	P23916	8124
7055 GREENRI IIM	7590 06/06/2007 I & BERNSTEIN, P.L.C.		EXAMINER	
1950 ROLANI	CLARKE PLACE		ARMSTRONG, ANGELA A	
RESTON, VA	20191	ART UNIT PA	PAPER NUMBER	
			2626	
			NOTIFICATION DATE	DELIVERY MODE
			06/06/2007	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

gbpatent@gbpatent.com pto@gbpatent.com

		Application No.	Applicant(s)			
Office Action Summary		10/614,834	YASUNAGA ET AL.			
		Examiner	Art Unit			
		Angela A. Armstrong	2626			
Period fo	The MAILING DATE of this communication apports or Reply	pears on the cover sheet with	the correspondence address			
WHIC - Exte afte - If NO - Faild Any	HORTENED STATUTORY PERIOD FOR REPL CHEVER IS LONGER, FROM THE MAILING D ensions of time may be available under the provisions of 37 CFR 1.1 or SIX (6) MONTHS from the mailing date of this communication. O period for reply is specified above, the maximum statutory period ure to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailin ned patent term adjustment. See 37 CFR 1.704(b).	NATE OF THIS COMMUNICATION 136(a). In no event, however, may a repwill apply and will expire SIX (6) MONTHE, cause the application to become ABAR	ATION. ly be timely filed AS from the mailing date of this communication. NDONED (35 U.S.C. § 133).			
Status						
1)🛛	Responsive to communication(s) filed on 20 h	<u> March 2007</u> .				
2a)⊠	This action is FINAL . 2b) This action is non-final.					
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under the	Ex parte Quayle, 1935 C.D.	11, 453 O.G. 213.			
Disposit	tion of Claims					
4)🖂	Claim(s) 2-16 is/are pending in the application	1.				
	4a) Of the above claim(s) is/are withdra	wn from consideration.				
5)	Claim(s) is/are allowed.					
·	Claim(s) <u>2-16</u> is/are rejected.					
·	, , ,					
8)□	Claim(s) are subject to restriction and/o	or election requirement.				
Applicat	tion Papers					
9)[The specification is objected to by the Examine	er.				
10)	☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.					
	Applicant may not request that any objection to the					
44)	Replacement drawing sheet(s) including the correct		•			
11)[The oath or declaration is objected to by the E	xaminer. Note the attached t	Office Action or form PTO-152.			
Priority	under 35 U.S.C. § 119					
,	Acknowledgment is made of a claim for foreign ☐ All b)☐ Some * c)☐ None of: 1.☐ Certified copies of the priority documen		119(a)-(d) or (f).			
	2. Certified copies of the priority documen		plication No.			
	3. Copies of the certified copies of the prior					
	application from the International Burea	•	Ç			
*	See the attached detailed Office action for a list	t of the certified copies not re	eceived.			
Attachme	• •					
	ice of References Cited (PTO-892) ice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Sui Paper No(s)/	mmary (PTO-413) Mail Date			
3) X Info	mation Disclosure Statement(s) (PTO/SB/08) er No(s)/Mail Date	_	ormal Patent Application			

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DETAILED ACTION

Double Patenting

1. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

2. Claims 1-16 are rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1-32 of U.S. Patent No. 6,415,254. Although the conflicting claims are not identical, they are not patentably distinct from each other because both the claims of US Patent No. 6,415,254 and the instant application are drawn to code excited linear prediction speech coder/decoders utilizing dispersed vectors generated by convolving selected dispersion patterns with a generated pulse vector.

Specifically, US Patent No. 6,415,254 claims a pulse vector generator configured to generate a pulse vector having a signed unit pulse (claims 1, 31, and 32); a dispersion pattern

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storage configured to store a plurality of fixed dispersion patterns (claims 1, 31, and 32); a dispersion pattern selector configured to determine a selected dispersion pattern of the plurality of fixed dispersion patterns (claims 1, 31, and 32) with reference to an adaptive codebook gain (claims 7, 10, 20); and a dispersed pulse vector generator configured to generate a dispersed pulse vector by convoluting the pulse vector and the selected dispersion pattern (claims 1, 31, and 32); the dispersion pattern selector comprising; a first selector that pre-selects dispersion patterns of the plurality of fixed dispersion patterns (claims 11-13); and a second selector that determines the dispersion pattern, of the pre- selected dispersion patterns (claims 11-13), to be convoluted with the pulse vector (claims 1, 31, and 32).

Response to Arguments

3. Applicant's arguments filed March 20, 2007 have been fully considered but they are not persuasive. Applicant argues the combination of claims 12, 11, 3 and 1 in U.S. Patent No. 6,415,254 does not include any combination of features that include storing "a plurality of fixed dispersion patterns" and determining "a selected dispersion pattern of the plurality of fixed dispersion patterns with reference to an adaptive codebook gain" as recited in claim 2 of the present application. The Examiner cannot concur. The claims of the patent specifically claim (1) the combination of the dispersion patterns selected by each channel is specified from all combinations of the dispersion patterns obtainable; (2) combinations of dispersion patterns are pre-selected using a speech parameter obtained in advance; (3) when coding distortion caused when specifying the index of adaptive codebook is larger than a preset threshold value, a dispersion vector of the random pattern is selected; (4) wherein when a value of a decoded

adaptive codebook gain is larger than a preset threshold value, the <u>dispersion pattern</u> obtained by training is selected. and (5) wherein the combination of dispersion patterns to be pre-selected is changed in accordance with an analyzing result of a speech segment, which provide support for the claim limitations of "a plurality of fixed dispersion patterns" and determining "a selected dispersion pattern of the plurality of fixed dispersion patterns with reference to an adaptive codebook gain."

Conclusion

4. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Angela A. Armstrong whose telephone number is 571-272-7598. The examiner can normally be reached on Monday-Thursday 11:30-8:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick Edouard can be reached on 571-272-7603. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Angela A Armstrong Primary Examiner Art Unit 2626

AAA May 29, 2007